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Listing of Claims:

1.	(Cancelled)
2.	(Cancelled)
3.	(Currently Amended) A brake transmission shift interlock actuator,
compr	ising:
	a bobbin defining an open end;
	a plunger slidably disposed within the bobbin;
	a plunger rod extending from the plunger;
	a portion of a central hub of a primary plate installed within the open end
of the	bobbin;
	wherein a magnetic force of attraction between the plunger and the
primar	y plate diminishes as the plunger approaches the primary plate; and
wherei	n the plunger is movable between an unlocked position, wherein the
plunge	r rod does not extend through the primary plate and a locked position,
wherei	n at least a first end of the plunger rod extends through a bore formed by
the primary plate; The actuator of Claim 1,	
	and wherein the bobbin defines a closed end, the closed end of the bobbin
compri	ising:
	a pocket; and
	plural ribs extending radially into the pocket.

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- 4. (Original) The actuator of Claim 3, wherein the plunger rod defines a second end that extends beyond the plunger, the second end of the plunger rod abutting the closed end of the bobbin when the plunger is in the unlocked position.
- (Original) The actuator of Claim 4, further comprising:
 an O-ring damper support face established around the outer periphery of
 the plunger; and

a first O-ring damper disposed around the plunger adjacent to the O-ring damper support face.

- (Original) The actuator of Claim 5, further comprising:
 a second O-ring damper disposed around the second end of the plunger
 rod.
- (Original) The actuator of Claim 6, further comprising:
 a spring biasing the plunger from the locked position to the unlocked position.
- 8. (Original) The actuator of Claim 7, wherein the spring is installed in compression between the primary plate and the plunger.

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9.	(Cancelled)	
10.	(Cancelled)	
11.	(Cancelled)	
12.	(Currently Amended) An electro-mechanical transmission locking system	
comprising:		
	a vehicle power supply;	
	an ignition switch electrically coupled to the vehicle power supply;	
	a brake pedal switch;	
	a brake transmission shift interlock actuator coupled to the ignition switch	
and the brake pedal switch, the brake transmission shift interlock actuator		
comprising:		
	a primary plate and a plunger, wherein the plunger moves toward	
	the primary plate when the brake transmission shift interlock	
	actuator is energized, and wherein a magnetic force of attraction	
	between the plunger and the primary plate diminishes as the	
	plunger approaches the primary plate;	
	a bobbin defining an open end;	
	the plunger slidably disposed within the bobbin;	

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a plunger rod extending from the plunger; and
a portion of a central hub of the primary plate installed within the
open end of the bobbin;

a transmission shift lever mechanically coupled to the brake transmission
shift interlock actuator wherein the plunger is movable between an unlocked
position, wherein the plunger rod does not extend through the primary plate and a
locked position, wherein at least a first end of the plunger rod extends through a
bore formed by the primary plate to prevent the transmission shift lever from
moving.; and

an automatic transmission mechanically coupled to the transmission shift lever;

The system of Claim 9, and wherein the bobbin defines a closed end, the closed end of the bobbin comprising:

a pocket; and

plural ribs extending radially into the pocket.

- 13. (Original) The system of Claim 12, wherein the plunger rod defines a second end that extends beyond the plunger, the second end of the plunger rod abutting the closed end of the bobbin when the plunger is in the unlocked position.
- 14. (Original) The system of Claim 13, further comprising:

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an O-ring damper support face established around the outer periphery of the plunger; and

a first O-ring damper disposed around the plunger adjacent to the O-ring damper support face.

- 15. (Original) The system of Claim 14, further comprising:a second O-ring damper disposed around the second end of the plunger rod.
- 16. (Original) The system of Claim 15, further comprising:a spring biasing the plunger from the locked position to the unlocked position.
- 17. (Original) The system of Claim 16, wherein the spring is installed in compression between the primary plate and the plunger.
- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)

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21. (Currently Amended) A brake transmission shift interlock actuator, comprising: a plunger; and a primary plate; a plunger rod extending from the plunger; a bobbin defining an open end; wherein the plunger is slidably disposed within the bobbin; wherein a portion of a central hub of the primary plate is installed within the open end of the bobbin; wherein the plunger moves toward the primary plate when the actuator is energized and wherein a magnetic force of attraction between the plunger and the primary plate diminishes as the plunger approaches the primary plate; and wherein the plunger is movable between an unlocked position, wherein the plunger rod does not extend through the primary plate and a locked position, wherein at least a first end of the plunger rod extends through a bore formed by the primary plate; The actuator of Claim 18, and wherein the bobbin defines a closed end, the closed end of the bobbin comprising: a pocket; and plural ribs extending radially into the pocket.

- 22. (Original) The actuator of Claim 21, wherein the plunger rod defines a second end that extends beyond the plunger, the second end of the plunger rod abutting the closed end of the bobbin when the plunger is in the unlocked position.
- 23. (Original) The actuator of Claim 22, further comprising:

an O-ring damper support face established around the outer periphery of the plunger; and

a first O-ring damper disposed around the plunger adjacent to the O-ring damper support face.

- 24. (Original) The actuator of Claim 23, further comprising:
 a second O-ring damper disposed around the second end of the plunger rod.
- 25. (Original) The actuator of Claim 24, further comprising:a spring biasing the plunger from the locked position to the unlocked position.
- 26. (Original) The actuator of Claim 25, wherein the spring is installed in compression between the primary plate and the plunger.